

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/013963 A1

- (51) International Patent Classification⁷: **A61K 31/195**, 31/167, 31/216, 31/138, A61P 11/00
- (21) International Application Number: PCT/BE2003/000134
- (22) International Filing Date: 6 August 2003 (06.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **GALE-PHAR M/F** [BE/BE]; Rue du Parc Industriel 39, B-6900 Marche-en-Famenne (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **VANDEBIST, Francis** [BE/BE]; Alsembergsesteenweg 1116, B-1650 Beersel (BE). **BAUDIER, Philippe** [FR/BE]; Rue Engeland 338, B-1180 Uccle (BE). **DEBOECK, Arthur** [BE/US]; HCO2 Box 14885, Gurabo, Puerto Rico 00778 (US).
- (74) Agents: **POWIS DE TENBOSSCHE, Roland** et al.; Cabinet Bede, Boulevard General Wahis 15, B-1030 Brussels (BE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ADVANTAGEOUS COMBINATIONS FOR INHALATION OF NACYSTELYN AND BRONCHODILATORS

(57) Abstract: Pharmaceutical combination or composition for inhalation a fixed combination (A) L-lysine N-acetylcysteinate and (B) a bronchodilator agent for simultaneous, sequential or separate administration by inhalation in the treatment of an inflammatory or obstructive respiratory disease.

WO 2005/013963 A1